

MARINE ALGAE OF RHODE ISLAND

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With increasing marine research activity in the Narragansett Bay area, the need for information about local marine algae has become urgent. Therefore, the available information has been compiled (Wood, in press) and a list of species known to occur in the State is presented.

The earliest serious collecting of algae in Rhode Island seems to have been by S. T. Olney and his associates, and considerable effort was made in the years of 1846-1849. But, also, during the summer of 1846, J. W. Bailey visited Rhode Island and collected with Olney. Bailey, working independently, obtained specimens from Europe and worked up the collections systematically and included the Rhode Island records in his publication of 1847. Olney, on the other hand, sent his material to W. H. Harvey of Dublin, who identified them. The records were published by Olney in 1847, the same year that Bailey's appeared. Whose work appeared first is not clear, but Olney was the first Rhode Islander to publish on the marine algae of the State, while Bailey was probably the first worker to both study and publish on algae of Rhode Island. Subsequent records are those by Harvey (1852-1858), Olney (1871), Farlow (1873, 1875, 1876, and 1881), and Bennett (1888), and the several reports by Collins between 1882 and 1896 which were largely summarized in his works of 1900 and 1909-1918. More recent reports are those by Wood & Palmatier (1954), the dissertation by Villalard (1971), and thesis by Vaughan (1971). In addition, three collections of concern are the "Algae Rhodiaceae" by Olney (1871) and the two large exsiccata sets in which Rhode Island algae occur — Farlow, Anderson & Eaton's (1877-1889) "Algae Exsiccatae Americae-Borealis" and Collins, Holden & Setchell's (1895-1919) "Phycotheca Boreali-Americana."

The senior author (rdw) prepared a list of species recorded from Rhode Island by Taylor (1957), and then

searched the literature for other early records. The supporting specimens were sought and examined, especially those at Brown University (courtesy of G. L. Church and W. H. Snell) and at the Farlow Herbarium at Harvard University (courtesy of I. M. Lamb). The complex of identifications and synonyms required careful tracing, but verification of most early names by examination of the actual collections was possible. The background information is to appear elsewhere (Wood, in press). The final list was checked by the junior author (mvp), and the latter also compiled the currently suggested synonyms that appear parenthetically in the list. Lastly, an evaluation of the frequency of occurrence of each taxon, based upon the authors' personal observations, was included. Where identifications were still uncertain, Dr. Wm. Randolph Taylor graciously aided. The final manuscript was examined and edited by Urda K. Wood.

It is hoped that this list will provide a background for future work on the algae of Rhode Island waters.

LIST OF MARINE ALGAE KNOWN FOR RHODE ISLAND

The nomenclature below follows Taylor (1957), but other suggested names and references are indicated parenthetically. However, author citations have been checked, and those involving "in" and "ex" entries include both authors. Species reported for the first time in Rhode Island are designated by an asterisk (*). The earliest known published record for each species in Rhode Island is cited in the second column, the abbreviations being: B = Bailey (1847), BENN. = Bennett (1888), B,O = Bailey (1847) and Olney (1847), C = Collins (1900), F = Farlow (1873), O = Olney (1847), OAR [for Olney's "Algae Rhodiaceae"] = Olney (1871), PBA = in Collins, Holden & Setchell (1895-1919), T = Taylor (1937), (VA) = thesis by Vaughan (1971), (VI) = dissertation by Villalard (1971), W = Wood (1962), W&P = Wood & Palmatier (1954).

Species which should be expected in the state, based on

Taylor's (1957) range records, but for which no adequate report is yet available, are summarized at the end of the list.

The frequency of occurrence of each species based on our combined personal observations is indicated in the third column as: t = trace, rare, + = local and uncommon, ++ = locally common, +++ = general and quite common. Where a rare taxon has been seen by only one of us, it is indicated as by "rdw" or "mvp" for R. D. Wood or M. Villalard-Bohnsack, respectively.

CHLOROPHYTA

Ulotrichaceae

- | | | |
|---|---|------|
| 1. <i>Stichococcus marinus</i>
(Wille) Hazen | T | + |
| 2. <i>Ulothrix flacca</i>
(Dillw.) Thuret in Le Jol. | C | +.++ |

Chaetophoraceae

- | | | |
|--|---|--|
| 3. <i>Pseudendoclonium submarinum</i>
Wille | T | |
|--|---|--|

Gomontiaceae

- | | | |
|--|--|---|
| 4. <i>Gomontia polyrhiza</i>
(Lagerh.) Born. et Flah. | | + |
|--|--|---|

Ulvaceae

- | | | |
|--|------|---|
| * 5. <i>Capsosiphon fulvescens</i>
(C.Ag.) Setch. et Gard. | (VI) | + |
| * 6. [<i>Enteromorpha ahlnneriana</i>
Blid.] | (VI) | + |
| 7. <i>E. clathrata</i> (Roth) J. Ag.
(<i>E. clathrata</i> (Roth) Grev. —
Parke & Dixon, 1964) | OAR | + |
| 8. <i>E. compressa</i> (L.) Grev.
(ecotype of <i>E. intestinalis</i> (L.)
Link — DaSilva & Burrows in
Norton, 1972, p. 385) | B,O | + |
| 9. <i>E. cruciata</i> Collins | OAR | |

- | | | | |
|--------------|--|----------|-----------|
| 10. | <i>E. erecta</i> (Lyngb.) J. Ag.
(<i>E. flexuosa</i> ssp. <i>paradoxa</i>
(Dillw.) Blid. — Bliding, 1963) | B,O | |
| * 11. | <i>E. groenlandica</i> (J.Ag.) Setch.
et Gard. | (VI) | ++ |
| 12. | <i>E. intestinalis</i> (L.) Link | B,O | +++ |
| 13. | <i>E. linza</i> (L.) J. Ag. | C | ++ |
| 14. | <i>E. marginata</i> J. Ag.
(<i>Blidingia marginata</i> (J. Ag.)
Dang. — Dangeard, 1958) | C | |
| 15. | <i>E. minima</i> Näg.
(<i>Blidingia minima</i> (Näg. ex
Kütz.) Kylin — Kylin, 1947) | B | +++ |
| 16. | <i>E. prolifera</i> (Müll.) J. Ag. | C | + |
| 17. | <i>Monostroma fuscum</i> (Post. et
Rupr.) Witt.
(<i>Ulvaria obscura</i> (Kütz.) Gayr.
— Gayral, 1965) | T | |
| 18. | <i>M. grevillei</i> (Thuret) Witt.
(<i>Ulvopsis grevillei</i> (Thuret)
Gayr. — Gayral, 1965) | C | + |
| * 19. | <i>M. leptodermum</i> Kjellm.
(<i>Kornmannia leptoderma</i>
(Kjellm.) Blid. — Bliding,
1968) | (VI) | + |
| 20. | <i>M. oxyspermum</i> (Kütz.) Doty
(<i>Ulvaria oxyspermum</i> (Kütz.)
Blid. — Bliding, 1968) | C | + |
| 21. | <i>M. pulchrum</i> Farlow | B | ++ |
| * 22. | <i>Percursaria percursa</i> (C. Ag.)
Rosenv. | | t(mvb) |
| 23. | <i>Ulva lactuca</i> L.
var. <i>latissima</i> (L.) DC. | B
B,O | +++
++ |
| Prasiolaceae | | | |
| 24. | <i>Prasiola stipitata</i> Suhr. in Jess. | B | ++ |

Cladophoraceae

25. <i>Chaetomorpha aerea</i> (Dillw.) Kütz.	B	+
(<i>Ch. linum</i> (Müll.) Kütz. — Christensen, 1957)		
26. <i>Ch. linum</i> (Müll.) Kütz.	B	++
27. <i>Ch. melagonium</i> (Web. et Mohr) Kütz.		t (rdw)
28. <i>Cladophora albida</i> (Huds.) Kütz.	F	+
29. <i>Cl. flexuosa</i> (Dillw.) Harv. (<i>Cl. serica</i> (Huds.) Kütz. — Hoek, 1963)	C	+
f. <i>densa</i> Collins	PBA	
30. <i>Cl. glaucescens</i> (Harv.) Harv. (<i>Cl. albida</i> (Huds.) Kütz. — Hoek, 1963)	F	
31. <i>Cl. gracilis</i> (Griff. ex Harv.) Kütz.	O	++
(<i>Cl. serica</i> (Huds.) Kütz. — Hoek, 1963)		
32. <i>Cl. hutchinsiae</i> (Dillw.) Kütz. var. <i>distans</i> (C. Ag.) Kütz. (<i>Cl. hutchinsiae</i> (Dillw.) Kütz. — Hoek, 1963)	T	
* 33. <i>Cl. laetevirens</i> (Dillw.) Kütz.	(VI)	+
34. <i>Cl. magdalenae</i> Harv. (<i>Cl. albida</i> (Huds.) Kütz. — Hoek, 1963)	F	
35. <i>Cl. refracta</i> (Roth) Kütz. (<i>Cl. albida</i> (Huds.) Kütz. — Hoek, 1963)	O	
36. <i>Cl. rudolphiana</i> (C. Ag.) Harv. (<i>Cl. serica</i> (Huds.) Kütz. — Hoek, 1963)	C	
37. <i>Cl. rupestris</i> (L.) Kütz.	OAR	+
38. <i>Rhizoclonium riparium</i> (Roth) Harv.	C	t

- var. *implexum* (Dillw.)
Rosenv. C
- var. *polyrhizum* (Lyngb.)
Rosenv. C
- * 39. *R. tortuosum* Kütz. (VI) +
(*R. riparium* (Roth) Harv. —
Scagel, 1966)
40. *Spongomorpha arcta* (Dillw.)
Kütz. B,O ++
(*Acrosiphonia arcta* (Dillw.)
J. Ag. — Kornmann, 1962)
- * 41. *S. lanosa* (Roth) Kütz. (VI) t
(*S. aeruginosa* (L.) Hoek —
Hoek, 1963)
- * 42. *S. spinescens* Kütz. t(mvb)
(*Acrosiphonia arcta* (Dillw.)
J. Ag. — Kornmann, 1962)
43. *Urospora penicilliformis*
(Roth) Aresch. O?,C +
- Bryopsidaceae
44. *Bryopsis plumosa* (Huds.)
C. Ag. B +
- Codiaceae
45. *Codium fragile* (Sur.) Hariot
ssp. *tomentosoides* (van Goor)
Silva W +++
- PHAEOPHYTA
- Ectocarpaceae
46. *Ectocarpus confervoides*
(Roth) Le Jol. C ++
(*E. siliculosus* (Dillw.)
Lyngb. — South & Cardinal,
1970)
var. *pygmaeus* (Aresch.)
Kjellm. T

47. <i>E. dasycarpus</i> Kuck.	C	
48. <i>E. fasciculatus</i> Harv.	O	+
49. <i>E. penicillatus</i> (C. Ag.) Kjellm.	OAR	
50. <i>E. siliculosus</i> (Dillw.) Lyngb.	OAR	++
51. <i>E. tomentosus</i> (Huds.) Lyngb. (<i>Spongonema tomentosum</i> (Huds.) Kütz. — Kuckuck, 1960)	C	+
52. <i>Giffordia granulosa</i> (Smith) Hamel	F	+
53. <i>G. mitchellae</i> (Harv.) Hamel (<i>G. mitchelliae</i> (Harv.) Hamel — Earle, 1969)	C	
54. <i>G. ovata</i> (Kjellm.) Kylin	T	
55. <i>G. secunda</i> (Kütz.) Batt.	F	
56. <i>Pylaiella littoralis</i> (L.) Kjellm. (<i>Pilayella littoralis</i> (L.) Kjellm. — Dixon & Russell, 1964)	B,O	+, ++
57. <i>Sorocarpus micromorus</i> (Bory) Silva	T	+ (rdw)
58. <i>Streblonema aecidioides</i> (Rosenv.) Fosl. (<i>Entonema aecidioides</i> (Rosenv.) Kjellm. — Edelstein & McLachlan, 1968)	C	
59. <i>S. chordariae</i> (Farl.) De Toni	F	
Sphacelariaceae		
60. <i>Cladostephus verticillatus</i> (Lightf.) Lyngb.	B,O	+
61. <i>Sphacelaria cirrosa</i> (Roth) C. Ag.	B	
62. <i>S. radicans</i> (Dillw.) C. Ag.	F	t
Myrionemataceae		
63. <i>Ascocyclus orbicularis</i> Magnus (<i>Myrionema magnusii</i> (Sauv.) Lois. — Loiseaux, 1967)	C	

64. *Hecatonema terminalis*
(Kütz.) Kylin C
65. *Myrionema coronnae* Sauv. T
66. *M. foecundum* (Strömf.) Fosl. C
(*Hecatonema foecundum*
(Strömf.) Lois. — Parke &
Dixon, 1968)
67. *M. globosum* (Reinke) Fosl. T
(*Microsporangium globosum*
Reinke — Parke & Dixon, 1964)
68. *M. strangulans* Grev. C
- Ralfsiaceae
69. *Ralfsia borneti* Kuck. T
70. *R. clavata* (Harv. in Hook.)
Crouan frat. C t
71. *R. pusilla* (Strömf.) Batt. C
72. *R. verrucosa* (Aresch.) J. Ag. B ++
- Elachisteaceae
(Elachistaceae — Parke & Dixon (1964))
73. *Elachistea chondri* Aresch. PBA
(*Elachista chondri* Aresch. —
Fritsch, 1945; Parke & Dixon,
1964)
74. *E. fucicola* (Vell.) Aresch. O ++
(*Elaschista fucicola* Aresch. —
Fritsch, 1945; Parke & Dixon,
1964)
75. *Halothrix lumbricalis*
(Kütz.) Reinke C
- Chordariaceae
76. *Chordaria flagelliformis*
(Müll.) C. Ag. B ++
var. *densa* Farl. C
77. *Eudesme virescens* (Carm. ex
Harv. in Hook.) J. Ag. C t

78. <i>Leathesia difformis</i> (L.) Aresch.	OAR	++
79. <i>Sphaerotrichia divaricata</i> (C. Ag.) Kylin	OAR	+
Stilophoraceae		
80. <i>Stilophora rhizodes</i> (Turn.) J. Ag.	OAR	
Desmarestiaceae		
81. <i>Arthrocladia villosa</i> (Huds.) Duby	C	t
82. <i>Desmarestia aculeata</i> (L.) Lamour.	B	+
83. <i>D. viridis</i> (Müll.) Lamour.	B	+
Striariaceae		
84. <i>Striaria attenuata</i> (Grev.) Grev.	C	
Punctariaceae		
* 85. <i>Asperococcus echinatus</i> (Mert.) Grev. (<i>A. fistulosus</i> (Huds.) Hook. — Edelstein, Wynne & McLachlan, 1970)	(VI)	+, ++
86. <i>Desmotrichum undulatum</i> (J. Ag.) Reinke	B, O	
87. <i>Litosiphon filiformis</i> (Reinke) Batt.	PBA	
88. <i>Myriotrichia clavaeformis</i> Harv.	C	
89. <i>M. filiformis</i> Harv.	F	
90. <i>Petalonia fascia</i> (Müll.) Kuntze	BENN.	++
91. <i>Punctaria latifolia</i> Grev.	BENN.	+
92. <i>P. plantaginea</i> (Roth) Grev.	O	+, ++
93. <i>Rhadinocladia cylindrica</i> Schuh	T	
94. <i>R. farlowii</i> Schuh	T	

95. *Scytosiphon lomentaria*
(Lyngb.) Link B,O ++,+++
(*S. lomentarius* (Lyngb.) Link
— Farlow, 1881)
- Dictyosiphonaceae
96. *Dictyosiphon chordaria*
Aresch. (as *Gobia*) T
97. *D. foeniculaceus*
(Huds.) Grev. B,O +
- Laminariaceae
98. *Alaria esculenta* (L.) Grev. C
99. *Chorda filum* (L.) Lamour. B,O +
100. *C. tomentosa* Lyngb. C +
101. *Laminaria agardhii* Kjellm. B,O +++
(*L. saccharina* (L.) Lamour. —
Wilce, 1965)
102. *L. digitata* (Huds.) Lamour. B,O ++
103. *L. intermedia* Fosl. C
(*L. digitata* (Huds.) Lamour.
— Sundene, 1958)
104. *L. longicruris* De la Pyl. BENN.
105. *L. saccharina* (L.) Lamour. C
- Fucaceae
- *106. *Ascophyllum mackaii*
(Turn.) Holmes et Batt. + (rdw)
(*A. nodosum* (L.) Le Jol. —
Gibb, 1957)
107. *A. nodosum* (L.) Le Jol. B,O ++,+++
108. *Fucus edentatus* De la Pyl. B +,++
(*F. distichus* L. ssp. *edentatus*
(De la Pyl.) Pow. — Powell,
1963)
109. *F. evanescens* C. Ag. C +?
(*F. distichus* L. ssp.
evanescens (C. Ag.) Pow. —
Powell, 1963)

110. <i>F. spiralis</i> L.	B	++
var. <i>limitaneus</i> Montagn.	T	
111. <i>F. vesiculosus</i> L.	B,O	+++
Sargassaceae		
112. <i>Sargassum filipendula</i> C. Ag.	B,O	+
*113. <i>S. natans</i> (L.) J. Meyen	(VA)	t(drift)
RHODOPHYTA		
Bangiaceae		
114. <i>Bangia ciliaris</i> Carm. ex Harv. (<i>Erythrotrichia ciliaris</i> (Carm. ex Harv.) Thur. in Le Jol. — Parke & Dixon, 1964)	C	t
115. <i>B. fuscopurpurea</i> (Dillw.) Lyngb.	B,O	++
116. <i>Erythrotrichia carnea</i> (Dillw.) J. Ag.	C	
117. <i>Goniotrichum alsidii</i> (Zanard.) Howe	C	t
118. <i>Porphyra leucosticta</i> Thuret in Le Jol.		t
*119. <i>P. miniata</i> (C. Ag.) C. Ag.	(VI)	+
120. <i>P. umbilicalis</i> (L.) J. Ag.	B,O	++
Acrochaetiaceae		
121. <i>Acrochaetium daviesii</i> (Dillw.) Näg.	C	
122. <i>A. flexuosum</i> Vickers	T	
123. <i>Kylinia secundatum</i> (Lyngb.) Papenf. (<i>Acrochaetium secundatum</i> (Lyngb.) Näg. — Parke & Dixon, 1968)	C	
124. <i>K. virgatula</i> (Harv.) Papenf. (<i>Acrochaetium virgatula</i> (Harv.) J. Ag. — Parke & Dixon, 1968)	C	

125. *Rhodochorton penicilliforme*
(Kjellm.) Rosenv. T
126. *R. purpureum*
(Lightf.) Rosenv. B
- Helminthocladiaceae
127. *Nemalion multifidum*
(Web. et Mohr) J. Ag. O +
(*N. helminthoides* (Vell. in
With.) Batt. — Parke &
Dixon, 1964)
- Chaetangiaceae
128. *Scinaia furcellata*
(Turn.) Bivona B?,F
- Bonnemaisoniaceae
- *129. *Asparagopsis hamifera*
(Hariot) Okam. (VI), (VA) ++
(*Bonnemaisonia hamifera* Har.
— Feldmann & Feldmann,
1942)
- Gelidiaceae
130. *Gelidium crinale*
(Turn.) Lamour. C + (m vb)
- Dumontiaceae
131. *Dumontia incrassata*
(Müll.) Lamour. T ++
- Rhizophyllidaceae
132. *Polyides caprinus*
(Gunn.) Papenf. B ++
(*P. rotundus* (Huds.) Grev.
— Parke, 1953)
- Squamariaceae
133. *Hildenbrandia prototypus*
Nardo BENN. +++

134. *Rhododermis georgii*
(Batt.) Collins T
(*Rhodophysema georgii* Batt.
—Dixon, 1964)
- Corallinaceae
135. *Corallina officinalis* L. BENN. ++
136. *Fosliella farinosa*
(Lamour.) Howe C
(*Melobesia farinosa* Lamour.
— Hamel & Lemoine, 1952)
137. *F. lejolisii* (Rosan.) Howe C +
(*Melobesia lejolisii* Rosan. —
Hamel & Lemoine, 1952)
138. *Lithophyllum corallinae*
(Crouan frat.) Heydr. PBA
139. *L. macrocarpum*
(Rosan.) Fosl. T
(*Dermatolithon pustulatum*
(Lamour.) Fosl. — Edelstein
& McLachlan, 1968)
140. *L. pustulatum*
(Lamour.) Fosl. OAR
- *141. *L. lenormandi*
(Aresch. in J. Ag.) Fosl. (VI) +, ++
(*Phymatolithon lenormandii*
(Aresch. in J. Ag.) Adey —
Adey, 1966)
142. *Melobesia membranacea*
(Esper) Lamour. C
(*Epilithon membranaceum*
(Esper) Heydr. — Parke &
Dixon, 1964)
143. *Phymatolithon laevigatum*
(Fosl.) Fosl. T ++
(*Lithothamnion laevigatum*
Fosl. — Parke & Dixon, 1964)

144. *P. polymorphum* (L.) Fosl. C
 (*Lithothamnion polymorphum*
 (L.) Aresch. in J. Ag. — Parke
 & Dixon, 1964)
- Gloiosiphoniaceae
145. *Gloiosiphonia capillaris* C t—+
 (Huds.) Carm. ex Berk. (periodic)
- Kallymeniaceae
146. *Euthora cristata* F t(drift?)
 (C. Ag.) J. Ag.
- Choreocolacaceae
147. *Choreocolax polysiphoniae* C
 Reinsch
148. *Harveyella mirabilis* T
 (Reinsch) Reinke
- Solieriaceae
149. *Agardhiella tenera* B ++
 (J. Ag.) Schmitz
 (as used by Taylor (1957), but
 designated *A. baileyi* (Harv. ex
 Kütz.) Taylor in Taylor &
 Rhyne (1970: 13), and since
 changed to *Neoagardhiella*
baileyi (Harv. ex Kütz.) Wynne
 & Taylor, Wynne & Taylor,
 1973, p. 101)
- Rhodophyllidaceae
150. *Cystoclonium purpureum* B,O ++,+++
 (Huds.) Batt. C ++
 var. *cirrhosum* Harv.
- Hypneaceae
151. *Hypnea musciformis* BENN. t
 (Wulf.) Lamour.

Gracilariaceae

- | | | |
|---|-----|-----|
| 152. <i>Gracilaria foliifera</i>
(Forssk.) Börg. | O | t |
| 153. <i>G. verrucosa</i> (Huds.) Papenf. | W&P | +++ |

Phylloporaceae

- | | | |
|---|-----|--------|
| 154. <i>Ahnfeltia plicata</i>
(Huds.) Fries | B,O | ++ |
| 155. <i>Gymnogongrus griffithsiae</i>
(Turn.) Mart. | C | t(mvb) |
| 156. <i>Phyllophora brodiaei</i>
(Turn.) Endl.
(<i>P. truncata</i> (Pallas) Newr. et
Taylor — Newroth & Taylor,
1971)
var. <i>catenata</i> (C. Ag.) Collins | F | + |
| 157. <i>P. membranifolia</i>
(Good. et Woodw.) J. Ag.
(<i>P. pseudoceranooides</i> (Gmel.)
Newr. et Taylor — Newroth &
Taylor, 1971) | O | ++ |
| 158. <i>P. traillii</i> Holmes ex Batt. | C | |

Gigartinaceae

- | | | |
|--|-----|-----|
| 159. <i>Chondrus crispus</i> Stackh. | B,O | +++ |
| 160. <i>Gigartina stellata</i>
(Stackh.) Batt.
(<i>Palmaria palmata</i> (L.)
Stackhouse — Guiry, 1974,
p. 219.) | C | ++ |

Rhodymeniaceae

- | | | |
|--|-----|-----|
| 161. <i>Rhodymenia palmata</i>
(L.) Grev. | B,O | +++ |
|--|-----|-----|

Champiaceae

- | | | |
|---|-----|-------|
| 162. <i>Champia parvula</i>
(C. Ag.) Harv. | B,O | ++ |
| 163. <i>Lomentaria baileyana</i>
(Harv.) Farl. | OAR | +, ++ |

- *164. [*L. clavellosa* (Turn.) Gail.] + (m vb)
 165. *L. orcadensis*
 (Harv.) Coll. ex Taylor OAR
- Ceramiaceae
166. *Antithamnion americanum*
 (Harv.) Farl. in Kjellm. C
 167. *A. cruciatum* (C. Ag.) Näg. BENN. +
 168. *A. plumula*
 (Ellis) Thuret in Le Jol. F
 169. *A. pylaisaei* (Mont.) Kjellm. C
 170. *Callithamnion baileyi* Harv. OAR t
 var. *laxum* Farlow T
 171. *C. byssoides*
 Arnott ex Harv. in Hook. OAR
 172. *C. corymbosum*
 (Smith) Lyngb. B +
 173. *C. roseum* (Roth) Lyngb. C +
 174. *C. tetragonum* (With.) C. Ag. O
 175. *Ceramium deslongchampii*
 Chauv. in Duby O
 176. *C. diaphanum* (Lightf.) Roth B,O +,++
 177. *C. fastigiatum* Harv. OAR ++
 178. *C. rubriforme* Kylin (prox.) (VA) t?
 179. *C. rubrum* (Huds.) C. Ag. B,O +++
 var. *pedicellatum* Duby C
 (*C. pedicellatum* DC. — Parke
 & Dixon, 1964)
 var. *squarrosus* Harv. OAR
 180. *C. strictum* Harv. C +
 181. *Griffithsia globulifera* Harv. C +
 182. *G. tenuis* C. Ag. O t
 183. *Pleonosporium borneri*
 (Smith) Näg. ex Hauck OAR
 184. *Plumaria elegans*
 (Bonnem.) Schmitz F +,++
 185. *Ptilota serrata* Kütz. B?,F t

- | | | | |
|-------|--|------|-------|
| 186. | <i>Seirospora griffithsiana</i> Harv.
(<i>S. seirosperma</i> (Harv.)
Dixon — Dixon, 1964) | OAR | |
| 187. | <i>Spermothamnion turneri</i>
(Mert.) Aresch.
(<i>S. repens</i> (Dillw.) Rosenv. —
Rosenvinge, 1924) | B | +, ++ |
| 188. | <i>Spyridia filamentosa</i>
(Wulf.) Harv. in Hook. | B, O | + |
| *189. | <i>Trailliella intricata</i>
(J. Ag.) Batt.
(sporophyte of <i>Asparagopsis</i>
<i>hamifera</i> — Taylor, 1957,
p. 291) | (VI) | +, ++ |

Delesseriaceae

- | | | | |
|------|---|------|----|
| 190. | <i>Grinnellia americana</i>
(C. Ag.) Harv. | B, O | ++ |
| 191. | <i>Phycodryis rubens</i> (L.) Batt. | B | ++ |

Dasyaceae

- | | | | |
|------|--|------|----|
| 192. | <i>Dasya pedicellata</i>
(C. Ag.) C. Ag.
(<i>D. baillouviana</i> (Gmel.) Mont.
— Dixon & Irvine, 1970) | B, O | ++ |
|------|--|------|----|

Rhodomelaceae

- | | | | |
|------|---|-------|--------|
| 193. | <i>Chondria baileyana</i>
(Mont.) Harv. | O | +, ++ |
| 194. | <i>C. dasyphylla</i> (Woodw.) C. Ag. | B, O | |
| 195. | <i>C. sedifolia</i> Harv. | C | +, ++? |
| 196. | <i>C. tenuissima</i>
(Good. et Woodw.) C. Ag. | W&P | t |
| 197. | <i>Polysiphonia denudata</i>
(Dillw.) Grev. ex Harv. in
Hook. | B | |
| 198. | <i>P. elongata</i> Harv. in Hook. | BENN. | ++ |
| 199. | <i>P. fibrillosa</i> (Dillw.) Spreng. | O | ++ |

200. <i>P. harveyi</i> Bail.	O	+++
var. <i>olneyi</i> (Harv.) Collins	O	
201. <i>P. lanosa</i> (L.) Tandy	B,O	++,+++
202. <i>P. nigra</i> (Huds.) Batt.	F	+
203. <i>P. nigrescens</i> (Huds.) Grev.	B	+
204. <i>P. novae-angliae</i> Taylor	B	
205. <i>P. subtilissima</i> Mont.	F	+
206. <i>P. urceolata</i> (Lightf. ex Dillw.) Grev.	C	++
207. <i>Rhodomela confervoides</i> (Huds.) Silva	B,O	+,++
208. <i>R. virgata</i> Kjellm.	C	

SPECIES TO BE EXPECTED IN RHODE ISLAND,
AND REPORTED FROM ADJACENT STATES BY TAYLOR (1957)

CHLOROPHYTA

Chlorococcaceae

Codiolum gregarium A. Br.

Ulotrichaceae

Ulothrix implexa Kütz.

Chaetophoraceae

Bolbocoleon piliferum Pringsh.

Entocladia flustrae (Reinke) Batt.

(*Epicladia flustrae* Reinke — Parke & Dixon, 1968)

E. wittrockii Wille

(*Ectochaete wittrockii* (Wille) Kylin — Parke & Dixon, 1968)

Pringsheimiella scutata (Reinke) Marchew.

Protoderma marinum Reinke

(*Pseudendoclonium marinum* (Reinke) Aleem et Schulz — Loiseaux, 1967)

Ulvaceae

Enteromorpha plumosa Kütz.

(*E. flexuosa* ssp. *paradoxa* (Dillw.) Blid. — Bliding, 1963)

Cladophoraceae

Chaetomorpha atrovirens Taylor

Cladophora crystallina (Roth) Kütz.

(*Cl. vagabunda* (L.) Hoek; *Cl. glomerata* (L.) Kütz. — Hoek, 1963)

Cl. expansa (Mert.) Kütz.

(*Cl. vagabunda* (L.) Hoek — Hoek, 1963)

Cl. flavescens (Roth) Kütz.

(a doubtful name — Hoek, 1963)

Derbesiaceae

Derbesia vaucheriaeformis (Harv.) J. Ag.

Bryopsidaceae

Bryopsis hypnoides Lamour.

Phyllosiphonaceae

Ostreobium quekettii Born. et Flah.

XANTHOPHYTA

Vaucheriaceae

Vaucheria litorea C. Ag.

V. thuretii Woronin

PHAEOPHYTA

Ectocarpaceae

Ectocarpus subcorymbosus Farl.

(*Farlowiella onusta* (Kütz.) Kuck. — Kuckuck, 1956)

Elachisteaceae

(Elachistaceae — Parke & Dixon, 1964)

Myriactula minor (Farl.) Taylor

Chordariaceae

Acrothrix novae-angliae Taylor

Eudesme zosterae (Lyngb.) Kylin

(*Cladosiphon zosterae* (J. Ag.) Kylin — Parke, 1953)

Striariaceae

Stictyosiphon subsimplex Holden

Punctariaceae

Desmotrichum balticum Kütz.

(*D. undulatum* (J. Ag.) Reinke — Kylin, 1947a)

Sargassaceae

Sargassum fluitans Börg.

RHODOPHYTA

Bangiaceae

Asterocytis ramosa (Thwaites in Harv.) Gobi ex Schmitz

Acrochaetiaceae

Audouinella membranacea (Magnus) Papenf.

Corallinaceae

Lithothamnium laeve (Strömf.) Fosl.

(*Leptophytum laeve* (Strömf.) Adey — Adey, 1966)

Ceramiaceae

Callithamnion circinatum (Kütz.) J. Ag.

Delesseriaceae

Membranoptera denticulata (Mont.) Kylin

Rhodomelaceae

Bostrychia rivularis Harv.

Polysiphonia flexicaulis (Harv.) Collins

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